

ELMOTAMYEZ QUESTIONS BANK

SCIENCE

على مقررات شهر نوفمبر

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O CARTOON SCIENCE













EL MOTAMYEZ - SCIENCE Questions Bank REVISION on unit 3 & 4

	QUES	STION 01	CI	hoose The	Cori	rect Answe	er	and of
(1)	y 📤	Light is	35	3	12 J	55	4	
350	a	takes up space	(b)	is made up of matter	©	is a form of energy	d	has a magnetic force
(2)		Which type	of en	ergy does the	e sun	provide Earth	7	
	(3)	light	(b)	gravity	©	chemical	d	mechanical
(3)	9 📤	Which of th	e foli	owing is a sou	ırce o	of light?		
	(3)	th <mark>e</mark> moon	(b)	our eyes	©	fire	d	a mirror
4		What prope	erty of	light helps y	ou se	e yourself in a	mirr	or?
0	a	refraction	(b)	reflection	©	absorption	d	relativity
(5)				best explains	s why	you can see y	ours	<mark>elf</mark> when you
	a	look at a mi Light is refract through the m	ted as i	t passes	b	Light is reflecte mirror.	ed, bo	uncing off the
7.50	©	Light is refract mirror.		uncing off the	d	Light is reflecte the mirror.	ed as it	passes through
6		What type of	of sur	face scatters I	ight ι	inevenly?		
星	(3)	shiny	(b)	rough	©	smooth	d	tr <mark>anspare</mark> nt
7		What word surface and			light	as it strikes a s	smoo	th, shiny
	a	shadow	b	energy	•	reflection	d	wave length
(8)		What happe	ens to	light when it	hits a	a roug <mark>h surfa</mark> c	:e?	4111
121	(1)	scattering	(b)	reflection	©	absorption	d	refraction
(9)		Which set o	f obje	ects below wo	ould a	ll reflect light	well?	5.50
	(3)	aluminum foil,	, brick	wall, mirror	b	metal spoon, to	ree tru	ınk, aluminum
	©	mirror, metal s	spoon,	brick wall	d	metal spoon, m	irror,	aluminum foil
(10)	The	organ respon	nsible	for the sense	of sig	ght		
14	(3)	the ear	(b)	the tongue	©	the nose	d	the eye
(11)		energy aff	ects o	n sensory rec	epto	rs in the eye, c	ausir	ng a vision.
	(3)	Sound	(b)	Kinetic	©	Light	d	Magnetic





SCIENCE QUESTIONS BANK

PRIMARY 4-FIRST TERM



12		ch of the follocts?	owing	g organs are v	worki	ng together fo	or see	eing different
	(3)	Nose and brain	(b)	Eyes and brain	0	Ears and brain	d	Tongue and brain
(13)	Eacl	n of the follow	wing	is considered	a sou	arce of light ex	ccept	
	a	the fire	(b)	the sun	©	the lamp	d	the eye
(14)	The	re is a tapetu	m luci	idum in all of	the fo	ollowing excep	ot	33° D
30	a	the horse	(b)	the cat	©	the human	d	the dog
(15)	All t	he following	consi	dered as a so	urce	of light except		
121	a	sun	(b)	candle	©	fire	d	moon
(16)	All	of the f <mark>ollow</mark> i	ng are	e transparent	obje	cts, except		
	a	gl <mark>ass</mark>	(b)	water	©	paper	d	air
17				hat's around e see with ou		/hat is the org s?	an re	esponsible
_ 8	a	The lungs	b	esophagus	©	stomach	d	The brain
18		<mark>e</mark> yes have	a thir	membrane i	n the	back of the ey	/e.	
D.	(3)	H <mark>um</mark> an	b	Tarsier monkey	©	Snake	d	Bats
19	Botl	n tarsier and	owi,					
	(3)	birds		can fly	©	are nocturnal animals	d	can swim
20	Eacl		Name of the last	g cat and tars	ier,	********		
xt Concept	a	has an excelle	ent visi	on.	b	becomes more	activ	e at <mark>night ////////////////////////////////////</mark>
400	0	has a mirror-li eye			d	has two eyes a	•	
21)		s use their dark		To get inform	ation	about their su	irrou	ndings in
). U_	(3)	eyes	b	tongue	0	ears	d	hands
22	Read	The state of the s	ting a	re common ty	ypes o	of communicat	tion i	n
_6	a	human	(b)	animals	©	birds	d	plants
23	Aniı	mals can com	muni	cate with eac	h oth	er through	50	
0	(1)	sounds and light	AL T	eating		writing	d	reading
24		ses organs co understandi		nformation a	nd se	nd signals to .	fc	or processing
	a	stomach	_	brain	©	hands	d	ear



25 Human and animals useto communicate

0	1
a	sound

b	ligh

movements

	all the
d	previous
	answers

OUESTION 02

Complete using words between brackets

- Cats' eyes are adapted to night vision due to the presence of behind their eyes (tapetum lucidum small eyes).
- The eyes glows in the dark. (snake fishing cat).
- When light falls on an object and the light....., so we can see this object. (refracts reflects)
- The eye sends messages to through the nerves. (Brain spinal cord).
- Human use to see in the dark. (medical glasses night goggle)
- The pupils of eyes of nocturnal animals usually openedthan the pupil of human eye (wider less)
- When light is absorbed by an opaque object,is formed. (Tapetum lucidum shadow)
- Nocturnal animals have eyes than human (bigger smaller)
- is from the opaque objects. (Carton Glass)
- Mirror like membrane of fishing cat eyes considered as (structural adaptation behavioural adaptation).
- Light travel in (straight curved line)
- tapetum lucidum is a (thin thick) layer at the back of some animal's eye reflect light.
- opaque objects (allow don't allow) light to pass through and objects (can cannot) be seen through them.
- if the surface is smooth the light rays will reflect in (one different) direction.
-materials allow most light to pass through and objects can be seen clearly through them (opaque transparent)



The energy which must present to make our eyes able to see objects 17 isenergy (light - sound). 18 Next Co if the surface is (smooth - rough) the rays will scatter or diffuse in different directions. From the organs that we can use to send or receive the code (Eye – heart) 20 Human is similar to fireflies in using To communicate (light – sound) 21) Bats makes (high - low) pitched sound 22 Humpback songs have low-pitches sounds which travel through (warm – cold) water. 23are forms of codes (thumb up and down - swimming). 24 Fireflies use theirto form different flash patterns (eyes-wings) 25 Humpback whales communicate with each other through thesense (hearing - smelling). 26season is considered a feeding season of humpback whales (winter – summer) 27 The dancing bee moves in a.....patterns (circle – eight) In morse code the beeps known as dots 28 (long beeps - short beeps). 29ants are responsible for locating food (nurse ants - scout ants). Fireflies produce light because of 30 (chemical reaction – light reflection). The honey bee makes (one dance – three dances or more) if the 31) flower is a little farther away. Solider ants are responsible for **32** (warning from dangers - locating food). In summer the song of humpback whales has 33 (high-pitched – low pitched) sounds. Sense organs collect information then send it to brain through 34 (hands -nerves)

Humpback whale's songs have high-pitched sound in

(feeding season - matting season)

(35)





The communication method of bee is (dancing – flash light).

	Put (\forall) or (x) or the following statemen	ITS:
1	The moon is a source of light.	(2)
2	Both humans and animals need a source of light to see	
3	Nocturnal animals have eyes that are bigger than the human eye.	(
4	Some animals can see at night, such as a wild cat	T.
5	Human has a tapetum lucidum in his eye to help him see at night) (
6	Wood is a transparent object that allows light to pass through it.	(
7	Bats use their sense of smell to avoid dangers	5
8	Tapetum lucidum of fishing cat considered as a structural adaptation.	į
9	If I can see my face clearly on a surface, this means that it is a smooth, shiny surface.	6(
10) Next Conc	Fishing cat has a mirror-like membrane on the back of the eye.	t
II)	In order to translate the code, the brain must identify it	
12	Animals can use more than one senses to communicate with each other	1
13	Bees can know the sweet taste by their sense of smell	(
14	Both Morse code and humpback whale depend on sound energy	(
15)	Human use light to communicate such as using traffic lights	(
	QUESTION 04 Complete the following sentences	
1	Some animals have the ability to see in the dark because of	<u>1).</u>
2	are sources of light.	
3	Human needto see in the dark.	
4	Mirror and moonlight falling on them.	
5)	when light fall from source of light on object, itto our eyes	30
<u>6</u>	will form when light hits opaque objects and no light pass	a





7	light is a visible form of energy that travels in form of	<u> </u>	
8	I saw an eye shining in the dark, this animal could be	a 100	
9	Both fireflies and honey bees use the sense oficommunication.	n their	
Next Conce	do special dances to tell others the direct distances to food and water.	ion and	
1	Morse code consists ofand		
12	produce flash lights to warn off predators or to att	ract a mate	e. ,
13	Whales useenergy to communicate but fireflic	es <mark>u</mark> se	
14	In Morse code short beeps known asar known asar	nd l <mark>on</mark> g bee	ps
15)	communicate with each other by using	the songs.	5
16	amount of food decreases.	ssa <mark>ge</mark> wher	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	QUESTION 05 Write the scientific term		الرحا
(1)	they are Objects that don't allow light to pass through.	T ()
2	it is the organ of sight that is affected by light in human and animals.		1
3	A device (tool) human use to see in the dark.)
4	The main source of light.)
5	it is a visible form of energy that travels in form of waves.	1	p 1
6	it is from nocturnal animals can turn its head 180 degree and has long tail.	136	To Y
7	it is a thin layer at the back of some animals eyes reflects light. they are materials objects that allow light to pass	4 3 y	
Next Concep	through.	E THE	300
4	Sense organ that can detect light energy .	1 250	}
(10)	It is a device help blind person in walking by emitting	650	320





11)	It is a code that use symbols in a pattern to give a specific meaning according to the arrangement of () letter in a word.
12	It is a pattern that has meaning. ()
13	It is a simple code consists of short beeps (dots) and long beeps(dashes).
14	The short beeps of morse code.
15	It is a code in form of sounds used to transfer information .
	QUESTION 06 Give reason?
1	Nocturnal animals can see in the dark
2	When light fall on object, we can see it
3	Fishing cat eyes glow in the dark
4	Moon is not considered as a source of light
5	We can see objects behind transparent materials
6	We can see objects.
7	The tapetum lucidum is very important in some nocturnal animal.
8	The human body forms a shadow when light falls on it.
9	The pupils of nocturnal animals' eyes open wider than human's eyes
10	When light fall on mirror it reflects in one direction
ext Concept	Whales use hearing sense as songs tones





	Fire flies use its wings to form different flash patterns
7	People use a rescue flare
The state of the s	The nurse ants send smelly message to scout ants
4	People use signal fires
	Bees do special dances (figure – eight)
الرر	olind person uses special cane during walking
بر	Humans use reading, writing and speaking
Q	UESTION 07 What happened if ?
)	light fa <mark>ll on a book.</mark>
)	Nocturnal animals don't have tapetum lucidum.
	Light falls on a mirror.
7	Light falls on rough surface such as painted surface.
<u> </u>	
)	Light fall on transparent object as glass window.
)	Light fall on transparent object as glass window. When fire flies want to warm off predator or attract mate.
	When fire flies want to warm off predator or attract mate.
3	When fire flies want to warm off predator or attract mate. A danger becomes close to the colony of ants.





ine cane of a blind p	oerson picks up echo.	W.
A scout bee become	es far away from the flower.	
		<u> </u>
UESTION 08 A	Inswer the following	36
	ng the following figure - What happe	ns un
see this apple?		
	then it is reflected	250
	eyes transmit the message to	150
then be interer	1/10/	
trien ne interpr	ets it and translates it, so we	
/9)	rets it and translates it, so we	Q.
/9)	rets it and translates it, so we	O.
/9)	rets it and translates it, so we	O.
see the apple.		elow:
see the apple.	rets it and translates it, so we figures, then answer the questions be	elow:
see the apple.		elow:
see the apple.	figures, then answer the questions be	elow:
ook at the following Figure (a)	figures, then answer the questions be	elow:

Classify the following in this table

The surface in figure (a) may be.....

(plastic - wood - mirror - cloth)

(Mirror – cloth – metal – wood – paper)

	Rough su	rface			Sm	ooth surfa	ace	
7 350	30	الرادي	7	.0	36	1000	- 5P	9
16			36					





(Lenses – rock- wood – air – glass – metal – water – human)

	Opaque o	bjects			Transp	arent o	bjects	
الآدرو	5.50	3	12	プ	7.50	30	100	ال د

(4) Choose from column (A) what suit it in both column (B):

(A)		(B)		
1	Human	a	Reflect sun light .	
2	moon	(b)	the main source of light.	
3	fishing cats	©	are nocturnal animals that have excellent night vision.	
4	sun	d	need night vision goggle to see in the dark.	

Look at the following pictures then answer the questions

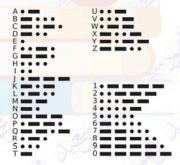
Rise the thumb up a kind of

- (a) codes
- **b** colours
- waves
- d light



6 Look at the following pictures then answer the questions

This figure represents..... which is consists of



أنتهت الأسئلة مع أطيب الأمنيات بالنجاح والتوفيق



MODEL ANSWERS

SCIENCE

على مقررات شهر نوفمبر

MRS. AMIRA AHMED

O CARTOON SCIENCE





EL MOTAMYEZ - SCIENCE Questions Bank REVISION on unit 3 & 4

	QUES	STION 01	CI	hoose The	Cori	rect Answe	er	and D	
7		Light is	55						
①	a	takes up space	b	is made up of matter	©	is a form of energy	d	has a magnetic force	
(2)		Which type	of en	ergy does the	e sun	provide Earth	7		
	(2)	<u>light</u>	(b)	gravity	©	chemical	d	mechanical	
3	4	Which of the	e folic	wing is a sou	urce o	f light?			
3	a	th <mark>e</mark> moon	(b)	our eyes	©	<u>fire</u>	d	a mirror	
		What prope	erty o	f light helps y	ou se	e yourself in a	mirr	or?	
•	a	refraction	(b)	reflection	©	absorption	d	relativity	
		Which statement best explains why you can see yourself when you look at a mirror?							
(5)	a	Light is refract through the m		t passes	b	Light is refracte mirror.	ed, bot	uncing off the	
	©	Light is reflecte mirror.	ed, boı	uncing off the	d	Light is reflecte the mirror.	d <mark>as</mark> it	passes through	
		What type	of sur	face scatters	light	unevenly?			
	(3)	shiny	b	<u>rough</u>	0	smooth	d	transparent	
7	J &	What word is used to describe light as it strikes a smooth, shiny surface and bounces off?							
	(3)	shadow	(b)	energy	©	reflection	d	wave length	
8		What happens to light when it hits a rough surface?							
	a	scattering	(b)	reflection	0	absorption	d	refraction	
		Which set o	ects below w	all reflect light	well				
9	(3)	aluminum foil,	brick v	wall, mirror	b	metal spoon, tr foil	ee tru	nk, aluminum	
	©	mirror, metal s	poon,	brick wall	d	metal spoon, m	irror,	aluminum foil	
10	The	organ respor	nsible	for the sense	e of sig	ght			
	a	the ear	b	the tongue	0	the nose	(1)	the eye	
		energy affo	ects o	n sensory re	cepto	rs in the eye, o	ausir	ng a vision.	
W a	(3)	Sound	(b)	Kinetic	•	<u>Light</u>	d	Magnetic	





SCIENCE QUESTIONS BANK PRIMARY 4 - FIRST TERM



(12)		ch of the follocts?	owing	g organs ar	e worki	ng together fo	or see	ing different	
	(3)	Nose and brain	(b)	Eyes and brain	•	Ears and brain	d	Tongue and brain	
(13)	Eacl	n of the follow	ving i	is considere	d a sou	rce of light ex	cept	j	
	a	the fire	(b)	the sun	©	the lamp	d	the eye	
(14)	The	re is a tapetui	m luc	idum in all d	of the fo	ollowing excep	ot	F	
	(2)	the horse	(b)	the cat	©	the human	d	the dog	
(15)	All t	he following	consi	dered as a	source o	of light except			
(13)	a	sun	(b)	candle	©	fire	d	moon	
(16)	All	of the f <mark>ollow</mark> i	ng ar	e transpare	nt objec	ts, except			
	a	gl <mark>ass</mark>	(b)	water	©	<u>paper</u>	d	air 🚜	
(17)		ey <mark>es</mark> help us perceiving wh				/hat is the org ?	an re	esponsible	
3	a	The lungs	b	The esophagus	©	The stomach	d	The brain	
(19)	*******	eyes have	a thir	membran	e in the	back of the ey	/e.		
(18)	a	Human	b	Tarsier monkey	0	Snake	d	Bats	
(19)	Both	n tarsier and o	owi,						
4	a	birds	b	can fly	©	are nocturnal animals	d	can swim	
60	Each of human, fishing cat and tarsier,								
9	a has an excellent vision.				(b)	becomes more active at night			
Next Concept	0	has a mirror-li eye	ke me	mb <mark>rane in its</mark>	d	has two eyes a	<u>dapte</u>	d for vision.	
				To get infor	mation	about their su	irrou	ndings in	
(21)	(a)	d <mark>ark</mark> eyes	(b)	tongue	(c)	ears	(d)	hands	
(22)		ding and writ	24/20	A THE STATE OF	types	of communicat	tion i		
	(3)	<u>human</u>	(b)	animals	©	birds	d	plants	
(00)	Anii	mals can com	muni	cate with e	ach oth	er through			
(23)	a	sounds and light	(b)	eating	©	writing	d	reading	
O'V	Senses organs collect information and send signals to								
(24)	for	processing a stomach	nd un	derstandin <u>brain</u>	g. ©	hands	d	ear	





Human and animals useto communicate

25

sound

b light

movements

d <u>all t</u> predans

OUESTION 02

Complete using words between brackets

- Cats' eyes are adapted to night vision due to the presence of behind their eyes (Tapetum lucidum small eyes).
- The eyes glows in the dark. (snake fishing cat).
- When light falls on an object and the light.....so we can see this object. (refracts reflects)
- The reflected light from the object enters the eye through (eye pupil eye retina) .
- The eye sends messages to through the nerves. (brain spinal cord).
- 6 Human use to see in the dark (medical glasses night goggle)
- The pupils of eyes of nocturnal animals usually opened than the pupil of human eye (<u>wider</u> less).
- When light is absorbed by an opaque object, is formed. (tapetum lucidum <u>shadow</u>).
- Nocturnal animals have eyes than human (bigger smaller).
- is from the opaque objects. (<u>Carton</u>- Glass).
- Mirror like membrane of fishing cat eyes considered as (<u>structural adaptation</u> behavioral adaptation).
- 12 Light travel in (straight curved line).
- Tapetum lucidum is a (thin thick) layer at the back of some animal's eye reflect light.
- Opaque objects (allow <u>don't allow</u>) light to pass through and objects (can <u>cannot</u>) be seen through them.
- If the surface is smooth the light rays will reflect in (one different) direction.
-materials allow most light to pass through and objects can be seen clearly through them (opaque transparent).
- The energy which must present to make our eyes able to see objects is energy (<u>light</u> sound).





- if the surface is (smooth <u>rough</u>) the rays will scatter or diffuse in different directions.
- From the organs that we can use to send or receive the code (<u>Eye</u> heart).
- Human is similar to fireflies in using to communicate (<u>light</u> sound).
- 21) Bats makes (<u>high</u> low) pitched sound.
- Humpback songs have low-pitches sounds which travel through (warm cold) water.
- 23are forms of codes (thumb up and down swimming).
- Fireflies use theirto form different flash patterns (eyes wings).
- Humpback whales communicate with each other through the sense (hearing smelling).
-season is considered a feeding season of humpback whales (winter <u>summer</u>).
- The dancing bee moves in a..... patterns (circle eight).
- In morse code the beeps known as dots (long beeps <u>short beeps</u>).
- 29 ants are responsible for locating food (Nurse ants scout ants).
- Fireflies produce light because of (chemical reaction light reflection)
- The honey bee makes (one dance three dances or more) if the flower is a little farther away.
- In summer the song of humpback whales has (high low) pitched sounds.
- Sense organs collect information then send it to brain through......... (hands -nerves).
- The communication method of bee is (dancing flash light).

QUESTION 03

Put ($\sqrt{ }$) or (x) or the following statements:

The moon is a source of light. 2 Both humans and animals need a source of light to see (3) Nocturnal animals have eyes that are bigger than the human eye. 4 Some animals can see at night, such as a wild cat (5) Human has a tapetum lucidum in his eye to help him see at night × (6) Wood is a transparent object that allows light to pass through it. 7 Bats use their sense of smell to avoid dangers Tapetum lucidum of fishing cat considered as a structural (8) adaptation. If I can see my face clearly on a surface, this means that it is a 9 smooth, shiny surface. Fishing cat has a mirror-like membrane on the back of the eye. (11) In order to translate the code, the brain must identify it Animals can use more than one senses to communicate with each (12) other (13) Bees can know the sweet taste by their sense of smell (14) Both Morse code and humpback whale depend on sound energy (15) Human use light to communicate such as using traffic lights

QUESTION 04

Complete the following sentences

- Some animals have the ability to see in the dark because of <u>Tapetum</u> lucidum.
- sun , candle and fire are sources of light .
- 3 Human need <u>night vision goggles</u> to see in the dark.
- Mirror and moon <u>reflect</u> light falling on them.
- When light fall from source of light on object, it bounces off to our eyes.
- **Shadow** will form when light hits opaque objects and no light pass through the body.
- light is a visible form of energy that travels in form of waves.





- I saw an eye shining in the dark, this animal could be cat (nocturnal animal).
- Both fireflies and honey bees use the sense of <u>sight</u> in their communication.
- Honey bees do special dances to tell others the direction and distances to food and water.
- Morse code consists of dots and dashes.
- 12 Fire flies produce flash lights to warn off predator or to attract a mate
- Whales use sound energy to communicate but fireflies use light energy.
- In Morse code short beeps known as dots and long beeps known as dashes.
- 15 <u>humpback whales</u> communicate with each other by using the songs.
- Nurse ants are responsible for sending smelly message when amount of food decreases.

OUESTION 05

Write the scientific term

- They are objects that don't allow light to pass through. opaque
- 2 It is the organ of sight that is affected by light in human and animals.
- A device (tool) human use to see in the dark.

 night vision
 goggles
- The main source of light.

 Sun
- It is a visible form of energy that travels in form of waves.
- lt is from nocturnal animals can turn its head 180 tarsier degree and has long tail.
- It is a thin layer at the back of some animal's eyes reflects light.
- 8 They are materials objects that allow light to pass through.
- Sense organ that can detect light energy.
- It is a device help blind person in walking by emitting a high- pitched sounds.

tapetum lucidum

transparent materials

Eye

Blind people cane



SCIENCE QUESTIONS BANK PRIMARY 4 - FIRST TERM PRIMARY 4 - FIRST TERM

It is a code that use symbols in a pattern to give a specific meaning according to the arrangement of letter in a word.

writing

12 It is a pattern that has meaning.

Code

It is a simple code consists of short beeps (dots) and long beeps(dashes).

morse code

14 The short beeps of morse code.

dots

It is a code in form of sounds used to transfer information.

language

QUESTION 06

Give reason....?

- Nocturnal animals can see in the dark

 Because of tapetum lucidum
- When light fall on object, we can see it
- Because of light reflection (light fall from light source on object then it reflect to our eyes)
- Fishing cat eyes glow in the dark
- mirror-like membrane at the back of the eye that reflects the light falls on it.
- Moon is not considered as a source of light

 Because it reflects the light of the sun that falls on it.
- We can see objects behind transparent materials
 - Because transparent materials allows most of light to pass through it .
- We can see objects.

 Because of light reflection.
 - The tapetum lucidum is very important in some nocturnal animal.
- Allow them to see in the dark so they can hunt or avoid to being hunted.
- The human body forms a shadow when light falls on it.
 - Because human body is opaque object.
- The pupils of nocturnal animals' eyes open wider than human's eyes

 To allow more light to enter the eye.
- When light fall on mirror it reflects in one direction
 - Because mirror is a shiny and smooth surface.
- Whales use hearing sense as songs tones
 - To communicate with each other.





- Fire flies use its wings to form different flash patterns 12
 - to warn off predators or to attract a mate
- People use a rescue flare 13 To communicate for getting help
- The nurse ants send smelly message to scout ants 14 To alert the scout ants that the food is low.
- People use signal fires (15)
 - To communicate over distances.
- Bees do special dances (figure eight)
- (16) To tell other bees the correct direction and distance to food and water (to communicate with each other).
- blind person use special cane during walking
- 17 Because it makes vibration to tell the blind person using it where objects around him located.
- Humans use reading, writing and speaking 18 To communicate with each other.

QUESTION 07

What happened if?

- light fall on a book. 1
 - Light will reflect on our eyes so we can see the book.
- Nocturnal animals don't have tapetum lucidum.
- They cannot see in the dark.
- Light falls on a mirror. 3
 - Light rays will reflect in one direction.
- Light falls on rough surface such as painted surface. 4 Light rays will (scattered) reflect in different directions.
- Light fall on transparent object as glass window.
 - Light will pass through it and I can see objects through it.
- (5) Next Co When fire flies want to warm off predator or attract mate It uses its wings to produce flash light
- A danger becomes close to the colony of ants. 7
 - Solider ants send smelly messages
- The sound waves produced by a bat hits an insect. (8) The sound waves return back to the bat inform of echo so bat can detect the place of insect.

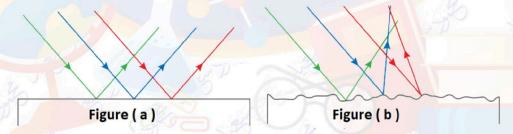


- We use flash LED light near fireflies
- Fireflies responded by flashing back the same flash pattern at the same time.
- Scout bee becomes very close to a flower. 10
 - It dances one dance.
- The amount of food in a colony of ants decreases. 1 Nurse ants produce smelly message to scout ants.
 - The cane of a blind person picks up echo.
- 12 The cane changes echo to vibration that the blind person senses it by his thumb.
- A scout bee becomes far away from the flower. (13) It dances three or more dances.

QUESTION 08

Answer the following

- Complete after noticing the following figure What happens until you see this apple?
 - The light falls on the apple then it is reflected on the eyes – so the eyes transmit the message to the brain then he interprets it and translates it, so we see the apple.
- Look at the following figures, then answer the questions below:



- a. The surface in figure (a) is smooth (mirror) Because the light rays reflected in one direction
- b. The surface in figure (b) is rough (wood or cloth) Because the light rays reflected in different directions
- c. In the previous two figures, the falling and reflected rays show that light travels in straight lines.
- d. The surface in figure (a) may be .. (plastic - wood - mirror - cloth)





(3) Classify the following in this table

(Mirror – cloth – metal – wood – paper)

Rough surface	Smooth surface
Wood – cloth - paper	Mirror – metal

(Lenses – rock- wood – air – glass – metal – water – human)

Opaque objects	Transparent objects
Rock- metal – human - wood	Water – glass – air - lenses

Choose from column (A) what suit it in both column (B):

(A)		(B)		
1	Human	(3)	Reflect sun light.	1 -
2	moon	(b)	the main source of light.	2-
3	fishing cats	©	are nocturnal animals that have excellent night vision.	3 -
4	sun	d	need night vision goggle to see in the dark.	4-

5 Look at the following pictures then answer the questions

Rise the thumb up a kind of

a codes

b colours

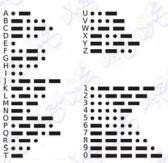
© waves

d light



6 Look at the following pictures then answer the questions

This figure represents morse code which is consists of dots and dashes



تم بحمد الله

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

